OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:		SAMPLE ID:	09-2816-1
		Date Sampled:	09/14/09 @ 1105
		Date Analyzed:	09/14/09 @ 1546
Attn:		Lab Contact:	J. Carstens
Facility:	HP Boyne	Meter:	-
Description:	HP Boyne Lease Seperator to Flare M-001	Pressure:	20 psig
Note:	Annual Gas Sample	Temp:	67 °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0.02	0.03	-
Nitrogen	0.32	0.40	-
Carbon Dioxide	16.16	31.37	-
Hydrogen Sulfide	0.00	0.00	-
Methane	78.59	55.61	-
Ethane	1.23	1.64	0.314
Propane	0.90	1.75	0.248
i-Butane	0.33	0.86	0.109
n-Butane	0.54	1.39	0.171
neo-Pentane	0.00	0.00	0.000
i-Pentane	0.24	0.77	0.088
n-Pentane	0.16	0.52	0.059
2,2-Dimethylbutane	0.05	0.21	0.020
2,3-Dimethylbutane	0.12	0.44	0.042
2-Methylpentane	0.27	1.02	0.097
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.07	0.27	0.029
Hexanes Plus	0.98	3.74	0.413
Totals	100.0	100.0	1.590

Specific Gravity, Calculated	0.7827	air = 1	
Compressibility (Z) Factor	0.9968		
		CHONS	Weight %
		Carbon	60.60
Gross Calorific Value		Hydrogen	16.16
BTU/ft^3 dry	953.7	Oxygen	22.84
BTU/ft^3 wet	937.1	Nitrogen	0.40
		Sulfur	0.00
Net Calorific Value			
BTU/ft^3 dry	862.3	EPA 'F' Factor (60°F, 1ATM)	8676.0
BTU/ft^3 wet	847.3	SDCF/MMBTU	
Hydrogen Sulfide =	16 ppm		

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

307 ROEMER WAY | SUITE 300 | SANTA MARIA | CA 93454 | (805) 922-4772 | FAX (805) 925-3376

Oilfield Environmental and Compliance
307 Roemer Way Suite 300, Santa Maria CA 93454
phone: (805) 922-4772 fax: (805) 925-3376

CHAIN OF CUSTODY

Company:	**Project Name:** Annual Gas Sample
Street Address:	**Site:** HP Boyne Lease
City: **State:** **Zip Code:**	**Comments:**
Telephone: **Fax:**	
Report To: **Sampler: Roger Dickinson**	

Turnaround Time
☐ 10 Work Days ☐ Work Days ■ 1 Work Day/Run
■ 5 Work Days/Report ☐ Work Days ☐ 2-8 Hours

Lab Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID	Analyses Requested: C1>C6	BTU	H2S								Remarks
0902816 1A-B	09/14/09 @ 1105	Gas	2	HP Boyne Lease Seperator to Flare M-001	X	X	X								20 psig/67F

Relinquished By: [signature] **Date:**09/14/09 **Time:**1200 **Received By:** [signature] **Date:**09/14/09 **Time:** 1200

Relinquished By: **Date:** **Time:** **Received By:** **Date:** **Time:**

Relinquished By: **Date:** **Time:** **Received By:** **Date:** **Time:**

Sample integrity upon receipt: Good Method of shipment: OEC
Samples received cold: y / n Samples received intact: y / n
Custody seals: y / n

OEC SAMPLE RECEIPT

Rev. 08/28/09

CLIENT: SRR

OEC ID #: 0902816

Temp: ——— ° C

Acceptable Range: 0°C to 6°C

COC RECEIVED DATE/TIME: 9-14-09@1200

RECEIPT LOGIN DATE/TIME: 9-14-09@1240

REFRIGERATOR(s): GR

SAMPLE TRANSPORT, RECEIPT, CONDITION & PRESERVATION:

		Yes	No	N/A
☒ OEC Courier/Sampler	COC document(s) received with samples	☒	☐*	☐
☐ Delivery(Other than OEC Courier)	Correct containers for analysis requested	☒	☐*	☐
☐ Samples Received on Ice	Container(s) intact and in good condition	☒	☐*	☐
☐ Samples Received Outside Temp. Range*	Container label(s) consistent with COC	☒	☐*	☐
☐ Samples Direct from field (Outside Temp)	OEC preservative added (**note std ID)	☐**	☐	☒
☐ After-Hours Outside Drop-off [Brought Inside]	Proper preservation on sample label(s)	☐	☐	☒
(Initials/Date/Time):	VOA containers free of headspace	☐	☐*	☒
	Tedlar Bags free of condensation	☒	☐*	☒ hy

(*) PROBLEM CHAIN FORM NEEDED

Custody Seals (circle): Present (Absent)

Samples / Coolers Intact / Broken*

Method of Shipment & Tracking #(if applicable):

(**) OEC Preservative ID:

COC CHANGES AND/OR CORRECTIONS:

CHANGES AUTHORIZED BY:

OEC ID	Client ID	Container Description	Preservative	ResCl /pH	Matrix	Date/Time Sampled	Comments / Remarks / Condition Notes, Etc.
1-A-B	SeeCOC	1-TedlAR 1-BOMD	—	—	GAS	SeeCOC	

RECEIPT LOGIN BY: [signature]

RECEIPT REVIEWED BY: hy